

LAZIDI, G.Kh.  
LAZIDI, G.Kh.

Composition of blood and mucus in bronchial asthma treated with  
neobenzinol. Vrach.delo supplement '57:6 (MIRA 11:3)

1. Ukrainskiy nauchno-issledovatel'skiy institut klinicheskoy meditsiny  
im. akad. N.D.Strazheskogo.  
(ASTHMA) (LEUKOCYTES)

LAZIDI, G. Kh.

LAZIDI, G. Kh., Cand Med Sci -- (diss) "Treatment of bronchial asthma with neobenzinol." Kiev, 1958. 20 pp (Kiev Order of Labor Red Banner Med Inst im Acad A.A. Bogomolets). 200 copies (KL,20-58,102)

MIKHNEV, A.L., prof.; LAZIDI, G.Kh.; OSADCHAYA, N.V. (Kiyev)

Basal metabolism in patients with bronchial asthma before and after  
treatment with neobenzinol. Vrach.delo no.5:469-471 My '59.

(MIRA 12:12)

1. Ukrainskiy nauchno-issledovatel'skiy institut klinicheskoy medi-  
tsiny imeni akad. N.D. Strazhesko.

(ASTHMA) (METABOLISM)

LAZIDI, G.Kh. [Lazidi, H.Kh.]

Neobenzinol as an effective agent of nonspecific desensibilization.  
Fiziol.zhur. [Ukr.] 5 no.4:555-560 J1-Ag '59. (MIRA 12:11)

1. Ukrainskiy nauchno-issledovatel'skiy institut klinicheskoy  
meditsiny im.akad.M.D.Strazhesko.  
(NEOBENZINOL)

LAZIDI, G.Kh.

External respiration in patients with bronchial asthma before  
and following treatment with neobenzinol. Kaz.med.zhur, 40;  
73-74 8-0 '59.  
(MIRA 13:7)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta klini-  
cheskoy meditsiny im. akad. N.D. Strazhesko (direktor - prof.  
A.L. Mikhnev).

(RESPIRATION) (ASTHMA) (HYDROCARBONS)

KARAPATA, A.P., kand.med.nauk; LEVIN, A.I., kand.med.nauk; LAZIDI, G.Kh.;  
VOLKOVA, V.M.

Treatment of hypertension with reserpine. Kaz.-med.zhur. 40  
no.2:62-65 Mr-Ap '59. (MIRA 12:11)

1. Iz Krivorozhskoy klinicheskoy spetisalizirovannoy bol'nitsy  
(glavvrach - A.G.Shumakov).  
(HYPERTENSION) (RESERPINE)

LAZIDI, G.Kh. (Krivoy Rog)

Potassium and calcium level in the blood serum of patients with  
bronchial asthma. Vrach.delo no.1:91-93 '60. (MIRA 13:6)

1. Ukrainskiy nauchno-issledovatel'skiy institut klinicheskoy  
meditsiny imeni akademika N.D. Strazhensko.  
(POTASSIUM IN THE BODY) (CALCIUM IN THE BODY ) (ASTHMA)

LAZIDI, G.Kh., kand.med.nauk

Functional state of the cardiovascular system in bronchial asthma before  
and after nonspecific desensitizing therapy. Kaz. med. zhur. no.6:  
13-15 N-D '61. (MIRA 15:2)

1. Ukrainskiy nauchno-issledovatel'skiy institut klinicheskoy meditsiny  
imeni akademika N.D.Strazhesko (direktor - prof. A.L.Mikhnev).  
(ASTHMA) (CARDIOVASCULAR SYSTEM)

LAZIDI, G. Kh.; KOVAL'CHUK, A. A. (Krivoy Rog)

Compensatory changes in the red blood in pulmonary insufficiency  
in siderosilicosis. Gig. truda i prof. zab. no.1:59-61 '62.  
(MIRA 15:2)

1. Krivorozhskiy nauchno-issledovatel'skiy institut gigiyeny  
truda i profzabolevaniy.

(LUNGS—DUST DISEASES) (ANOXEMIA) (ERYTHROCYTES)

LAZIDI, G.Kh.

Quantity of proteins, potassium and calcium in the blood serum  
of patients with bronchial asthma. Vop.med.khim. 8 no.1:30-34  
Ja-F '62. (MIRA 15:11)

1. Otdel klinicheskoy farmakologii Ukrainskogo instituta  
klinicheskoy meditsiny imeni akademika N.D.Strazhesko, Kiyev.  
(ASTHMA) (BLOOD PROTEINS) (POTASSIUM IN THE BODY)  
(CALCIUM IN THE BODY)

LAZIDI, G.K. [Lazidi, H.Kn.]

Functional state of the cerebral cortex in bronchial asthma patients  
according to indicator of visual analyzer excitation. Fiziolicheskaya  
[Ukr] 9 no.3:403-405 My.-L. '63. MIRA (1963)

I. Ukrainskiy institut klinicheskoy meditsiny im. akad. N.I. Strazhesko,

ALEKSEYeva, G.Ye., kand. tekhn. nauk, dots.; MELESHKINA, L.P., dots., kand. tekhn. nauk; BALUYEV, V.K., inzh.; BAMDAS, A.M., prof., doktor tekhn. nauk; VENIKOV, V.A., prof., doktor tekhn. nauk; YEZHKOv, V.V., kand. tekhn. nauk; ANISIMOVA, N.D., dots., kand. tekhn. nauk; GANTMAN, S.A., kand. khim. nauk; GLAZUNOV, A.A., dots., kand. tekhn. nauk; GOGUA, L.K., inzh.; GREBENNICHENKO, V.T., inzh.; GRUDINSKIY, P.G., prof.; GORFINKEL', Ya.M., inzh.; ZVEZDIN, A.L., inzh.; KAZANOVICH, G.Ya., inzh.; KNYAZEVSKIY, B.A., dots., kand. tekhn. nauk; KOSAREV, G.V., dots., kand. tekhn. nauk; MESSERMAN, S.M., kand. tekhn. nauk, dots.; KOKHAN, N.D., inzh.; KUVAYEVA, A.P., dots., kand. tekhn. nauk; SOKOLOV, M.M., dots., kand. tekhn. nauk; LASHKOV, F.F., dots., kand. tekhn. nauk; LAZIN, A.I., inzh.; YUDIN, F.I., inzh.; LIVSHITS, A.L., kand. tekhn. nauk; METEL'TSIN, P.G., inzh.; NEKRASOVA, N.M., dots., kand. tekhn. nauk; OL'SHANSKIY, N.A., dots., kand. tekhn. nauk; POLEVAYA, I.V., dots., kand. tekhn. nauk; POLEVOY, V.A., dots., kand. tekhn. nauk [deceased]; RAZEVIg, D.V., prof., doktor tekhn. nauk; RAKOVICH, I.I., inzh.; SOLDATKINA, L.A., dots., kand. tekhn. nauk; TREMBACH, V.V., dots., kand. tekhn. nauk; FEDOROV, A.A., prof., kand. tekhn. nauk; FINGER, L.M., inzh.; CHILIKEI, M.G., prof., doktor tekhn. nauk, glav. red.; ANTIK, I.V., inzh., red.; GOLOVAN, A.T., prof., red.; PETROV, G.N., prof., red.; FEDOSEYEV, A.M., prof., red.

(Continued on next card)

ALEKSEYEVA, G.Ye.--- (continued). Card 2.

[Electrical engineering manual] Elektrotekhnicheskii spravochnik. Pod obshchei red. A.T. Golovana i dr. Moskva, Energia. Vol.2. 1964. 758 p. (MIRA 17:12)

1. Moscow. Energeticheskiy institut. 2. Moskovskiy energeticheskiy institut (for Golovan, Grudinskiy, Petrov, Fedoseyev, Chilikin, Venikov). 3. Chlen-korrespondent AN SSR (for Petrov).

LAZIN, Aleksandr Iosifovich; ATABEKOV, V.B., red.; BORUNOV, N.I.,  
tekhn. red.

[Shorting devices and isolators] Korotkozamykateli i otde-  
liteli. Moskva, Gosenergoizdat, 1963. 38 p. (Biblioteka  
elektromontera, no.105) (MIRA 17:3)

LAZINSKI, Janusz, mgr inz.

Influence of the deformability of frames on the stress distribution in cylindrical shell structures. Inst lotn prace no.18:  
3-10 '63.

1. Opiniował prof. dr inż. Zbigniew Brzoska.

GAYDAY, Stepan Grigor'yevich; LAZINTSEV, Dmitriy Nikiforovich;  
VASKEVICH, D.N., spets. red.; KUZNETSOVA, N.I., red.;  
KOROPOVA, N.D., tekhn. red.

[Safety measures in the repair and assembly of equipment in  
the chemical industries] Tekhnika bezopasnosti pri remonte i  
montazhe oborudovaniia v khimicheskoi promyshlennosti. Mo-  
skva, Profizdat, 1962. 127 p. (MIRA 15:5)  
(Chemical engineering--Safety measures)

LAZINTSEV, D.N.; VEKSER, A.A., red.

[Safety engineering in laying and repairing pipes in chemical plants] Tekhnika bezopasnosti pri montazhe i remonte truboprovodov v khimicheskikh proizvodstvakh. Moskva, Izd-vo "Khimia," 1964. 64 p. (MIRA 17:7)

LAZISHVILI, L. A.

Dissertation: "Technological and Biochemical Characteristics of the Production of 'Lao-Cha'." Cand Tech Sci, Georgian Agricultural Inst, Tbilisi, 1953. (Referativnyy Zhurnal--Khimiya, Moscow, No 4, Feb 54)

SC: SUM 243, 19 Oct 1954

A.  
LAZISHVILI, L., kand.tekhn.nauk

Processing lao tea. Trudy VNIICHP no.1:98-104 '58.  
(MIRA 12:5)  
(Tea)

LAZISHVILI, L.A.

Intensified technological processes in the manufacture of green pressed tea. Biokhim. chisl. proizv. no.9:167-176 '64. (MIRA 16:4)

1. Nauchno-issledovatel'skiy institut chaynoy promyshlennosti, Anaseuli.  
(Tea)

ZHUKOVSKIY, A.V., professor; PRAKHOV, N.N.; PRIKHOD'KO, N.P.; LAZITSKAYA, L.N.

Effect of organomineral mixtures on potatoes. Agrobiologija no.3:107-108  
My-Je '56. (MLRA 9:9)  
(Potatoes) (Fertilizers and manures)

S/022/61/014/006/003/004  
D299/D301

AUTHORS: Laziyev, E. M. and Tumanyan, V. A.

TITLE: On a method of measuring the velocity of charged particles

PERIODICAL: Akademiya nauk Armyanskoy SSR. Izvestiya. v. 14, no. 6,  
1961, 111-116

TEXT: The method is based on the relativistic nature of the interaction between traveling particle and electromagnetic field. It is proposed observing the relativistic change in the distance between the points where the particles and the wave peaks meet, by means of the radiation called forth at these points by accelerated ionization-electrons. In earlier works, the particle velocity was measured by standing electromagnetic waves, using the formula

$$l = \frac{1}{2} \lambda \beta \quad (1)$$

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On a method of measuring ...

S/022/61/014/006/003/004  
D299/D301

where  $l$  denotes the distance between neighboring points of meeting between traveling particle and wave peak,  $\lambda$  - the wavelength in the resonator,  $\beta$  - ratio of particle to light velocity. Another (earlier) method involved the use of traveling electromagnetic waves, whose plane velocity may either equal the velocity of light or not. In the first case ( $v_{ph} = c$ ), one obtains

$$l = \frac{\lambda}{2} \beta (1 + \beta) \left( \frac{E}{m_0 c^2} \right)^2 \quad (4)$$

where  $E$  is the particle energy and  $m_0$  the rest mass. The method of traveling waves permits measurement of higher velocities than those allowed by formula (1). In addition,  $v_{ph} < c$  yields greater precision of measurement than follows from formula (1). However, in the region of higher energies, the length of the apparatus ought to

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S/022/61/014/006/003/004  
D299/D301

On a method of measuring ...

increase with the square of  $(E/m_0 c^2)$ . This limits the scope of the method, as the apparatus would become too unwieldy. These difficulties can be overcome by setting up a system of resonators along a straight line, the resonators being excited with a phase shift  $\phi(1)$ . Assume the particle meets the wave peak in the first resonator. The condition for the subsequent meeting in one of the other resonators which is at a distance  $l$  from the first, is

$$\phi(1) + l \frac{\omega}{v \cos \alpha} = m\pi \quad (5)$$

where  $m$  is set equal to 1. With  $m = 2, 3, \dots$ , one obtains the other conditions. In the following, one always sets  $m = 1$ , as it is convenient to have minimum size of apparatus. Formula (5) describes the most general case, the formulas (1) and (4) being special cases of it. The system of resonators offers wide possibilities of velocity measurement. By appropriate choice of  $\alpha$ , any dependence of  $l$  on  $v$ , required by the experiment, can be obtained. Two such re-

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S/022/61/014/006/003/004  
D299/D301

On a method of measuring ...

relationships are considered, yielding

$$\varphi(l) = \pi \left[ 1 - \frac{2l}{\lambda} \frac{1}{\sqrt{1 - \left( \frac{\lambda}{nl} \right)^2}} \right].$$

$$\varphi(l) = \pi \left[ 1 - \frac{2l}{\lambda} \frac{\left( \frac{nl}{\lambda} + \varepsilon \right)}{\sqrt{\left( \frac{nl}{\lambda} + \varepsilon \right)^2 - 1}} \right] \quad (7)$$

$n$  and  $\varepsilon$  are positive numbers, chosen from the conditions of the experiment. Fairly high energies can be measured, without a large increase in apparatus size;  $l$  depends linearly on  $E/m_0 c^2$ , which makes formulas (7) more convenient than (4). Besides, the size of the

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On a method of measuring ...

S/022/61/014/006/003/004  
D299/D301

apparatus can be further reduced by increasing  $n$ . Further, experimental conditions are considered which would involve an arbitrarily small angle of incidence  $\alpha$  of the particles. Such conditions can be realized by means of an apparatus consisting of 2 completely identical systems of resonators or waveguides, whose axes are at a certain fixed angle  $\theta$ . There are 2 figures and 2 references: 1 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: D. Gabor, B. Hampton, A. Wilson cloud chamber with time-marking of particle tracks. Nature, 180, 746, 1957.

ASSOCIATION: Institut fiziki AN Armyanskoy SSR (Institute of Physics, AS ArmSSR)

SUBMITTED: June 27, 1961

Card 5/5

44195

S/109/62/007/012/014/021  
D266/D308

AUTHORS: Laziyev, E. M. and Gazazyan, E. D.

TITLE: Cylindrical cavity filled with dielectric

PERIODICAL: Radiotekhnika i elektronika, v. 7, no. 12, 1962,  
2086-2088

TEXT: The purpose of the paper is to determine the resonant frequency of a cavity resonator partially filled with dielectric. The exact equation from which the wave number can be determined is

$$F(k) = \frac{J_0(\sqrt{\epsilon} kr)}{\sqrt{\epsilon} J_1(\sqrt{\epsilon} kr)} - \frac{J_0(k R_o) N_0(k R_o)}{J_1(kr) N_0(k R_o) - J_0(k R_o) N_1(kr)} = 0 \quad (1)$$

where  $\epsilon$  - dielectric constant,  $r$  - radius of the dielectric filling,  
 $R_o$  - radius of the cavity,  $J_n$ ,  $N_n$  - Bessel functions of the first

Card 3

S/109/62/007/012/014/021  
D266/0579

Cylindrical cavity filled ...

and second  $\lambda_i = \omega/c$ ,  $c$  - velocity of light.  $\omega$  - resonant frequency. The solution is attempted using the principle that a small change in the radius of the dielectric filling can only slightly affect the resonant frequency. The value of the wave number after the  $i$ -th approximation is

$$k_i = k_{i-1} + \Delta k_i$$

(2)

where  $k_{i-1}$  - known solution of (1) corresponding to the radius  $r_{i-1}$ ,  $\Delta k_i$  - small increment in  $k$  satisfying the inequality  $\Delta k_i/k_{i-1} \ll 1$ . Expanding  $F(k)$  in a Taylor series at the point  $k_{i-1}$  and retaining only the linear terms a long analytical approach is based on the fact that the dielectric filling changes only the equivalent capacitance of the cavity.

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9.3130

36028  
S/022/62/015/002/009/009  
D218/D302

AUTHORS: Gazazyan, E.D., and Laziyev, E.M.

TITLE: Two-frequency bunching of electron beams

PERIODICAL: Akademiya nauk Armyanskoy SSR. Izvestiya. Seriya fiziko-matematicheskikh nauk, v. 15, no. 2, 1962, 173-179

TEXT: The authors discuss the characteristics of a radio-frequency buncher consisting of two resonators operating at frequencies  $\omega_1$  and  $k\omega_1$ , respectively. A harmonic analysis is made of the output current of the buncher and it is shown that the phase width of a bunch leaving this system is of the form

$$\Phi = \omega_1 t_1 - A_{13} \sin \omega_1 t_1 - \frac{1}{k} A_{23} \sin k(\omega_1 t_1 + \varphi_{12} - A_{12} \sin \omega_1 t_1). \quad (2.5)$$

The output beam contains very high harmonics ( $\sim 800$ ) of the fundamental frequency  $\omega_1$ . In a sample calculation it was found that 48% of all the particles were grouped within  $2\Phi = 0.022$  radian. The Card 1/2

Two-frequency bunching of electron beams S/022/62/015/002/009/009  
D218/D302

formulas derived in the present paper can be used in a full design  
calculation of this type of buncher. There are 3 figures and 2 non-  
Soviet-bloc references.

ASSOCIATION: Fizicheskiy institut AN Armyanskoy SSR (Physics Insti-  
tute of the AS Armenian SSR)

SUBMITTED: November 21, 1961

Card 2/2

L 18046-63

ACCESSION NR: AP3000086

S/0022/63/016/002/0079/0085

45

AUTHORS: Gazazyan, E. D.; Laziyev, E. M.

TITLE: Cherenkov radiation in wave-guide

SOURCE: AN ArmSSR. Izv. Seriya fiziko-matem. nauk, v. 16, no. 2, 1963, 79-85

TOPIC TAGS: point charge, fine charge, line spectrum, radiation

ABSTRACT: The cherenkov radiation intensity generated by a charge moving with velocity  $v$  along the axis of a wave-guide filled with a dielectric  $\epsilon$  is considered. Expressions are obtained for three such charges: a point charge of magnitude  $e$  (where  $e$  is the electronic charge); a line charge of length  $a$  and charge magnitude  $q$  per unit length; and a consecutive motion of several charged lines separated by a distance  $d$  between their centers. For the point charge the radiation frequency produces a line spectrum. Equation (1)

$$\omega_0 = \frac{e_0 v}{\epsilon} \cdot \frac{1}{d}$$

indicates that the frequency is proportional to the characteristic value  $\lambda$  of the characteristic wave function  $\Psi$ . It is shown that the moving line charge

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L 18046-65

ACCESSION NR: AP3000086

radiates with equivalent point charge magnitude  $qa=e$ . An interference pattern is obtained for the case of the consecutively moving line charges. "The author thanks M. L. Ter-Mikayelyan and V. M. Arutyunyan for their interest in this work." Orig. art. has: 44 equations.

ASSOCIATION: Fizicheskiy in-t GKAE (Institute of Physics)

SUBMITTED: 30Oct62

DATE ACQ: 12Jun63

ENCL: 00

SUB CODE: PH

NO REF SOV: 005

OTHER: 000

Card 2/2

GAZAZYAN, E.D.; LAZIYEV, E.M.; POGOSYAN, E.S.

Determining the natural frequency of a resonator with an arbitrary dielectric filling. Izv. AN Arm. SSR. Ser. fiz.-mat. nauk 16 no.4:103-105 '63. (MIRA 16:8)

l. Fizicheskiy institut Gosudarstvennogo komiteta po  
ospol'zovaniyu atomnoy energii SSSR.

BR

8/0022/64/017/002/0135/0138

ACCESSION NR: AP4038584

AUTHOR: Laziyev, E. M.

TITLE: Propagation of electromagnetic waves in a medium with periodically varying permeability and permittivity

SOURCE: AN ArmSSR. Izv. Seriya fiziko-matematicheskikh nauk, v. 17, no. 2, 1964,  
135-138

TOPIC TAGS: electromagnetic wave propagation, permeability, permittivity, Maxwell equation, separation of variables

ABSTRACT: Under the assumption of periodically changing magnetic and electric fields the author studies propagation of electromagnetic waves in a medium whose dielectric and magnetic permeability vary in the direction of the z axis and remain unchanged in the xy plane. He considers the case of polarization when the vector  $\vec{E}$  lies in the plane of propagation of the wave. He uses separation of variables and the small parameter method. In certain cases, in view of the factor  $e^{iq_0x}$ , there is an exponentially damping wave (the medium has strips of non-pas-

Card 1/2

GAZAZYAN, E.D.; LAZIYEV, E.M.

Point charge radiation in a waveguide with laminated dielectric filling. Radiotekh. i elektron. 10 no.4:676-680 Ap '65. (MIRA 18:5)

POLAND/Cosmochemistry. Geochemistry. Hydrochemistry.

D

Abs Jour: Ref Zhur-Khim., No 23, 1958, 77051.

Author : Lazkiewicz, Antoni.

Inst :

Title : Sulfur and Celestine at Tarnobrzeg and Szydlowo.

Orig Pub: Arch. mineralg., 1957, 20, No 1-2, 95-120.

Abstract: Native sulfur, celestine and calcite from bore-holes in the region South-East of Kelce-Sandomir mountain ridge are described. The mother rock is gypsum of Upper Tortonian age, which passes into limestone in some places. Native sulfur accompanied by calcite, celestine and, sometimes, baryte was formed by the process of chemical reduction of gypsum under the action of bacteria and organic substances. The absence of aragonite is considered

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LAZ'KO, A.D., inzh.

Waterproofing enclosing structures without roll materials.  
Prom.stroi. 41 no.3:32-34 Mr '64. (MIRA 17:3)

1. Donpromstroyniiprojekt.

LECHIN, M.I., inzh.; LAZ'KO, A.D., inzh.; ZADOROZHNYY, A.Ye., inzh.

Donets Basin mine builders are introducing nonrolled waterproofing.  
Shakht. stroi. 8 no.8:16-17 Ag '64. (MIRA 17:9)

1. Artemovskiy trest shakhtnogo stroitel'stva (for Lechin, Zadorozhnyy).
2. Donpromstroyiprojekt (for Laz'ko).

Laz'ko, N. I.

AID P - 1188

Subject : USSR/Electricity

Card 1/1 Pub. 29 - 10/27

Author : Laz'ko, N. I., Eng.

Title : Improvement of performance of the driving gear GP-125

Periodical : Energetik, 12, 13-14, D 1954

Abstract : The author describes a remote control driving gear for switchgear of Soviet production. The type described has some deficiencies, a faulty compression due to low temperatures and an over-rapid wearing out of leather in packings. Improvements introduced in one of the regional networks gave satisfactory results. Two drawings.

Institution : None

Submitted : No date

BORISOV, I., prepodavatel'; MORDVINTSEV, S. (g.Krasnyy Sulin, Rostovskaya obl.); MOSKVICHEV, P. (g.Ordzhonikidze); KNYAZEV, Yu., shofer 1 klassa (g.Krasnoyarsk); SOLOVEY, A., shofer 1 klassa (g.Krasnoufimsk); LAZ'KO, M., avtomekhanik (g.Kalinin); SUKHOV, I., shofer; DAVYDOV, G. (Khersonskaya obl.)

For unified regulations for awarding drivers' licenses. Avt.-transp. 39 no.9:48-49 5 '61. (MIRA 14:10)

1. Voronezhskiy uchelnnyy kombinat (for Borisov). 2. Miasskoye avtobusnoye khozyaystvo (for Sukhov).  
(Automobile drivers' licenses)

L00001-67 FWT(m)/FWP(t)/FTI/FWP(k) IJP(c) JU/10  
ACC NR: AT6026552

SOURCE CODE: UN/2716/66/000/046/0086/0092

AUTHORS: Laz'ko, V. G.; Lobodov, D. V.; Ovsyannikov, B. N.

ORG: none

TITLE: Influence of thermal treatment and preliminary deformation on the crystallization process in thin ribbons of steel 1Kh18N1OT

SOURCE: Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii. Sbornik trudov, no. 46, 1966. Spetsial'nyye stali i splavy (Special steels and alloys), 86-92

TOPIC TAGS: steel, alloy steel, chromium steel, nickel steel, metal test / 1Kh18N1OT steel

ABSTRACT: The crystallization process in thin 0.1-mm ribbons of steel 1Kh18N1OT was studied as a function of the thermal treatment and preliminary deformation of the ribbon. The study supplements the results of I. L. Rogol'berg and Ye. S. Shpichinetskiy (Diagrammy rekristallizatsii metalloc i splavov. Metallurgizdat, 1950). The microstructure and grain size of the steel ribbon were determined as a function of the annealing temperature and degree of deformation. The experimental results are presented graphically (see Fig. 1). It was found that at 1200°C the critical deformation of the ribbon was 10--25%. At all temperatures studied, a

Card 1/2

L. 10001-67 EAT(m)/EGP(t)/ETI/EWP(k) IIP(c) JN/111  
ACC NR: AT6026552

SOURCE CODE: UR/2776/66/000/046/0026/0092

23  
25

AUTHORS: Laz'ko, V. G.; Lobodov, D. V.; Ovzyannikov, B. M.

ORG: nono

TITLE: Influence of thermal treatment and preliminary deformation on the crystallization process in thin ribbons of steel 1Kh18N10T

SOURCE: Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii. Sbornik trudov, no. 46, 1966. Spetsial'nyye stali i splavy (Special steels and alloys), 86-92

TOPIC TAGS: steel, alloy steel, chromium steel, nickel steel, metal test / 1Kh18N10T steel

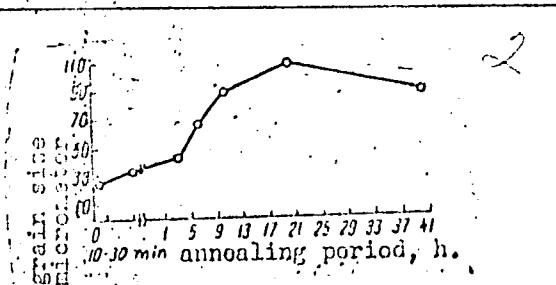
ABSTRACT: The crystallization process in thin 0.1-mm ribbons of steel 1Kh18N10T was studied as a function of the thermal treatment and preliminary deformation of the ribbon. The study supplements the results of I. L. Rogol'berg and Ye. S. Shpichinetskiy (Diagrammy rekristallizatsii metallov i splavov. Metallurgizdat, 1950). The microstructure and grain size of the steel ribbon were determined as a function of the annealing temperature and degree of deformation. The experimental results are presented graphically (see Fig. 1). It was found that at 1200°C the critical deformation of the ribbon was 10–25%. At all temperatures studied, a

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L 09951-67

ACC NR: AT6026552

Fig. 1. Dependence of the grain size after annealing (1250C) on the annealing period (deformation 90--93%).



second critical deformation zone was found to exist for a degree of compression of 90--93%. The heating medium (water, vacuum) has no effect on the grain size of the steel. Orig. art. has: 1 table and 6 graphs.

SUB CODE: 11 / SUBM DATE: none / ORIG REF: 002 / OTH REF: 001

stainless steel 1%

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PA 4T105

USSR/Geology

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"CR Acad Sci" Vol XLIX, No 6

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4T105

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000928920019-1

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RECORDED BY, I.E. P.

PA-67T48

USSR/Geology  
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Mar/Apr 1948

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Describes the stratigraphy, tectonics, and volcanic  
action of the western part of the Alden platform.  
Shows the close relation of the crystalline structures  
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W. Eitel

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Mar 49

"Characteristics of Cimmerian Intrusions in  
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V. N. Kozerenko, Ye. M. Laz'ko, 4 pp

"Dok Ak Nauk SSSR" Vol LXV, No 3

Discusses rock formations of 'Priargunskiy  
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Analogous to Vinogradskii's studies on liquid inclusions in "geothermometers" (Zapiski Vsesoyuznogo Mineralogicheskogo Seta, No. 77, No. 33 (1978)), and Ternakov et al. (1981), the pressure-temp. curves for the density of  $\text{CO}_2$  are applied for the derivation of curves which indicate the pressures varying with different relative vols.  $V_1/V_2$ , where  $V_1$  is the total vol. of a given inclusion,  $V_2$  the vol. of the liquid part in it. Concerning the restricted availability of pure  $\text{CO}_2$  inclusions, and the much more complicated problems of the  $\text{H}_2\text{O}$  inclusions in minerals, additionally those with mixed liquids, L discusses the work of Ingelson (C.R., 42, 63c).

W. Eitel

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The rocks of the western part of the Aldan shield (basin of the upper reaches of the Aldan River) are divided into the following two structural stages: (1) the lower, a pre-Cambrian, representing widely distributed archaic formations and limitedly developed proterozoic; and (2) the upper, representing deposits of the Cambrian and Jurassic, encountered only in the periphery of the described region.

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V. A. Nikoleev, a corresponding member of the Academy of Sciences USSR, is one of the greatest specialists in the field of stratigraphy, vulcanism, and tectonics of Central Asia. He established the sharp tectonic boundary between the northern and southern zones of the T'ien-Shan Mountains, the so-called "most important structural line of the T'ien-Shan," or "line of Nikolayev." In recent years, Nikolayev has been occupied with working out the general problems of physicochemical petrology and the problems of the application of thermodynamics to the processes of magmatic crystallization and metamorphism. Especially important are his theoretical investigations into the field of systems with volatile components of the rock-forming silicate-water type. Study of the ternary systems gives an understanding of the processes governing the formation of hydrothermal and pneumatolite solutions.

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Characteristics of the Proterozoic deposits in the western part of the Aldan Shield. E. M. Laz'ko. *Doklady Akad. Nauk S.S.R.* 89, 641-3 (1959). The metamorphic formations by the Chuga and Yarog rivers in the western part of the Aldan shield are studied. The formations consist of tuffaceous and effusive rocks at various stages of metamorphism and contain sericite-chlorite, biotite-feldspathic, as well as granat-amphibolitic shales, biotite gravels, sillimanite shales, and other rocks. In addn., feldspathic-quartz shales and calcareous sands or sandy limestone and various conglomerates are also found in these metamorphic formations. These laminar deposits are considered to be of the Proterozoic era for the following reasons: (1) the Archeozoic fold of the Aldan shield has a northeastern strike, whereas the rocks of the metamorphic deposits at the western part of the shield have all a meridional strike; (2) the compn. of the metamorphic formation shows a sedimentary and volcanic origin and does not correspond to the compn. of the Aldan shield nor the other regions in southern Siberia; (3) the rocks in the metamorphic formations do not exhibit the characteristic granitization or migmatite formation of the basement rocks; and finally (4) the mineralogic combination of the rocks in the metamorphic deposits is analogous to those intrinsic with Proterozoic formations found at other parts of Southern Siberia. Paul Y. Feng

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Garnets from Archean and Proterozoic sediments of the Aldan shield. E. I. Lavrenko and E. M. Laz'ko (I. Franko State Univ., Lvov). Doklady Akad. Nauk S.S.R. 99, 613-16 (1954).—The garnets of the Archean crystalline schists have  $n$  varying between 1.781 and 1.802; the corresponding  $n$  for the garnets of the Proterozoic schists are 1.802 to 1.817. Four complete chemical analyses of such garnets are given. The first is for garnet from an Archean porphyroblastic-biotite-cordierite-plagiogneiss (with  $Ab_{45}An_{45}$ ), and the compn. 61.6%  $Al_2O_3$ ; 31.6%  $P_2O_5$ ; 1.8%  $Sp$ ; 4.3%  $An_2$ ; 0.7%  $Gr$ ;  $n = 1.783$  to 1.790. The second porphyroblastic garnet is from an Archean plagiogneiss (with  $Ab_{41}An_{49}$ ) and corresponds to 62.5%  $Al_2O_3$ ; 27.3%  $P_2O_5$ ; 2.1%  $Sp$ ; 1.8%  $An_2$ ;  $n = 1.795$  to 1.802. The third garnet is from a biotite-garnet-amphibole schist, with much sphene. It contains 72.1%  $Al_2O_3$ ; 4.6%  $P_2O_5$ ; 7.8%  $Sp$ ; 5.0%  $An_2$ ; 11.1%  $Gr$ ;  $n = 1.790$  to 1.796. The fourth garnet is from a mica-schist (with  $Ab_{44}An_{45}$ ), and has the compn. 57.2%  $Al_2O_3$ ; 10.7%  $P_2O_5$ ; 2.3%  $Sp$ ; 5.5%  $An_2$ ;  $n = 1.807$  to 1.817. Characteristic is for the garnets of the Archean rocks the relatively low content in spessartite, andradite, and grossularite (sum about 0.9% in mass.), while those in the Proterozoic schists show these inols much higher (sum up to 24%), and especially pyrope much lower. The particular enrichment in MnO in the analyses of the Proterozoic series rocks is combined with this particularity of the garnets. The Archean rocks have been formed under geo. conditions of great depths in the earth's crust, the Proterozoic metamorphic rocks under moderate depth conditions. The greater role of MnO in the latter series is of great geochem. importance.

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Moscow: I. I. Shafranovskiy, Leningrad; G. N. Vertushkov.

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